

AEMETIS

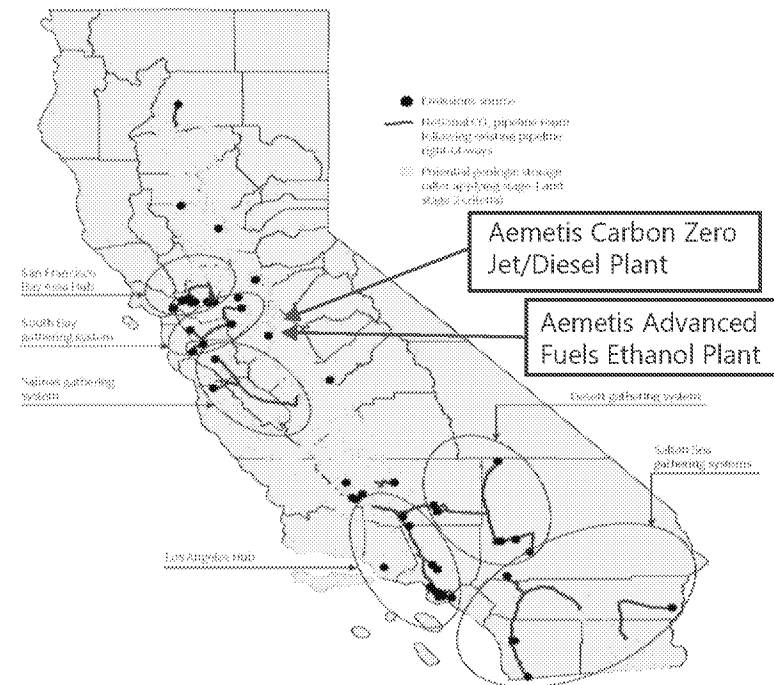
Aemetis Carbon Capture:  
Carbon Capture & Sequestration (CSS) of CO<sub>2</sub> for  
Renewable Fuels Plants and Refineries in California

# Aemetis Carbon Capture and Sequestration Projects in California

- Formerly an inland ocean now known as the Central Valley of California
  - Light green area shows shale geological storage containing saline water for CCS
  - Shale caprock layer at approximately 7,000 ft depth and basement layer below CO<sub>2</sub> storage formation
- There are currently no operational CCS projects in the State of California
  - Few CCS projects in active development in California
- Aemetis strategy is to sequester combined 2 million metric tonnes of CO<sub>2</sub> per year at two sites located at our biofuels plants
  - 400,000 MT per year from biogas and biofuels plant operations
  - 1.6 million MT per year of carbon sequestration using CO<sub>2</sub> supplied by other fuel producers in California

Chapter 3: The CCS Opportunity in California

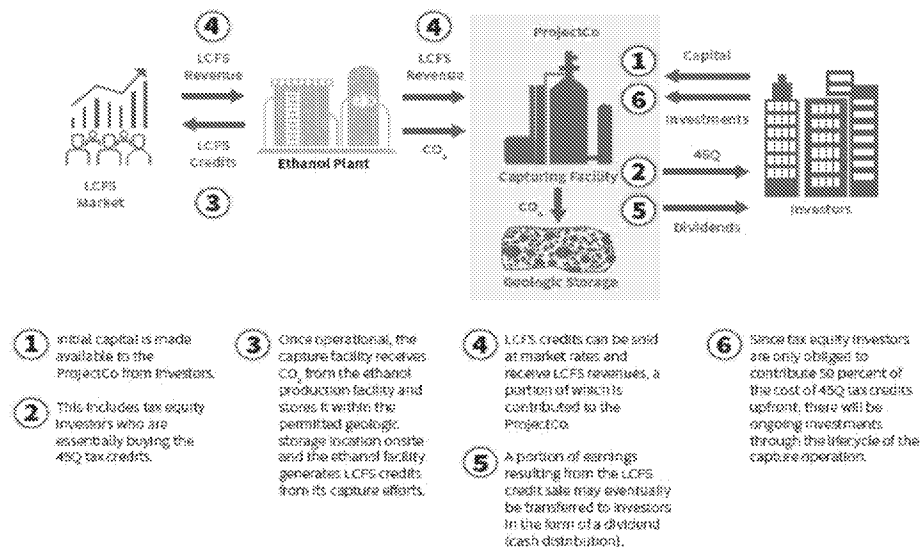
FIGURE 3.12  
CCS PROJECT DEVELOPMENT OPPORTUNITIES



Map illustrates potential project development opportunities that together could sequester 50 Mtpa CO<sub>2</sub>. Pipeline routings are "provisional" and follow existing pipeline right-of-ways. Sink locations are not intended to be exact locations for geologic storage. Source: Energy Futures Initiative and Stanford University, 2010.



# Sustainability:



Positive cash flow (for duration of LCFS, assumed 15 years) indicates ethanol with CCS is an investable project. *Source: Energy Futures Initiative and Stanford University, 2020.*

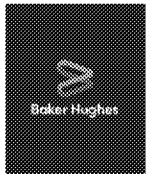
# Aemetis Carbon Capture & Sequestration Project Leaders

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## **ATSI: Carbon Sequestration Project Manager, Engineering and EPC**

- For more than 40 years, ATSI has provided world-class Front-End Engineering Design (FEED/FEL), project management, EPC and commissioning services
- Major projects completed at more than 60 oil refineries, including commissioning of \$10 billion oil refinery
- Completed 138 commercial projects in 21 different states



## **Baker Hughes: Underground Engineering and Well Drilling**

- Leading natural gas and crude oil drilling company
- \$20 billion market value
- Operates in 120+ countries
- CCUS Technology Solutions include:
  - Pre-FEED and FEED consultation and project design
  - Capture and purification
  - Injection Well design and construction for storage
  - Micro-seismic expertise

